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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/637,097	08/08/2003	Yu Zheng	PAT-1130CC2	5018
7590	02/24/2006		EXAMINER	
Raymond Sun 12420 Woodhall Way Tustin, CA 92782			WILKENS, JANET MARIE	
			ART UNIT	PAPER NUMBER
			3637	
			DATE MAILED: 02/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/637,097	ZHENG, YU
	Examiner Janet M. Wilkens	Art Unit 3637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on December 1, 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 18,20-23 and 28 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 18,20-23 and 28 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 18, 20-23 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of U.S. Patent No. 6,604,537. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable panels attached at adjacent edges thereof via stitching and sleeves. Since the frames of the folding panels are themselves foldable it would be obvious to twist and/or fold them in a manner wherein concentric rings are formed. It also would be obvious to add the fabric material onto the frame so that it and the frame form a flat structure, for aesthetic reasons, etc and obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claims 18, 20-22 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2, 10, 11, 13,

15, 17-19, 21, 23 and 24 of U.S. Patent No. 6,209,557. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable panels attached at adjacent edges thereof via sleeves. Since the frames of the folding panels are themselves foldable it would be obvious to twist and/or fold them in a manner wherein concentric rings are formed. It also would be obvious to add the fabric material onto the frame so that it and the frame form a flat structure, for aesthetic reasons, etc and obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claims 18, 20-23 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3, 8 and 12 of U.S. Patent No. 5,778,915. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable panels attached at adjacent edges thereof via stitching and sleeves. Since the frames of the folding panels are themselves foldable it would be obvious to twist and/or fold them in a manner wherein concentric rings are formed. It also would be obvious to add the fabric material onto the frame so that it and the frame form a flat structure, for aesthetic reasons, etc and obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claims 18, 20-22 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5 and 9-12 of

U.S. Patent No. 5,579,799. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable panels attached at adjacent edges thereof via sleeves. Since the frames of the folding panels are themselves foldable it would be obvious to twist and/or fold them in a manner wherein concentric rings are formed. It also would be obvious to add the fabric material onto the frame so that it and the frame form a flat structure, for aesthetic reasons, etc and obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claims 18, 20-23 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2 and 5 of U.S. Patent No. 5,560,385. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable panels attached at adjacent edges thereof via stitching and sleeves. Since the frames of the folding panels are themselves foldable it would be obvious to twist and/or fold them in a manner wherein concentric rings are formed. It also would be obvious to add the fabric material onto the frame so that it and the frame form a flat structure, for aesthetic reasons, etc and obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claims 18, 20-23 and 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 2 of U.S.

Patent No. 6,851,439 in view of Wan. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant invention and patent teach a pair of foldable flat panels hingedly attached at adjacent edges thereof. The folding panels are themselves foldable in a manner wherein concentric rings are formed. Although it is not stated how the panels are attached, it would have been obvious to employ sleeves, such as is shown by Wan in Fig. 4, to provide a specific aesthetically pleasing hinge attachment between the panels. It further would have been obvious to position the adjacent panels in various configurations, including at actuate angles with respect to one another, depending on the structural shape desired.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 18, 20-23 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Springer et al in view of Wan. Springer teaches a collapsible structure (Fig. 2) comprising: a flat side member (32) and a flat base member (34) hingedly attached via connectors (36). The members are foldable and include fabric there over. For claim 18, Springer fails to teach that the hinge between the members is comprised of two sleeves and stitching. Wan teaches the use of sleeves and stitching (see Fig. 4) to hingedly attach collapsible framed members together. It would have

been obvious to one of ordinary skill in the art at the time of the invention to modify the structure of Springer by using alternate hinge means between its frame members, i.e. using the sleeve/stitching members of Wan therein instead of the connectors presently used, since these hinge means are functionally equivalent and would work equally well between the members of Springer. Furthermore, if the material and sleeves of Wan are used with the foldable frames of Springer, the structure assembly as a whole would be simplified, using fewer separate parts to form the structure and the hinge would be more supportive, extending the entire length of the frames. Furthermore, because of the positioning of the members, the flexible hinge angle of Springer in view of Wan would be an acute angle.

Response to Arguments

In response to the arguments concerning the double patenting rejections: the term "base" is merely nomenclature. Note: the description of the members of a structure depends on the positioning of the structure as a whole. For example, by setting one of the disclosed panels of the cited references on a floor surface, it inherently becomes a base member. Since all of the structural limitations are met in the claims of the patents, all of the "positioning" terms would inherently be met as well by positioning the structure/panels as needed. As for the "flat" limitation, as stated above, it also would be obvious to add the fabric material onto the frames of the disclosed panels so that it and the frames form flat structures, for aesthetic reasons, etc. Furthermore, when placing the material taut over the frames, the frame/material panels

would inherently be flat. Next, that some of the cited reference claims contain additional limitations is irrelevant. The claims of the instant application are in “comprising” format and therefore are “open” ended; therefore, no “conversion” of the patents’ structural features are needed. The double patenting rejection is over the instant application’s claims and the claims of the cited references contain the features disclosed therein. Finally, the hinged manner in which the patents’ panels are attached would inherently allow them to be located at acute angles.

Applicant’s arguments, with respect to the 102 rejection using Wan, have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made under 103 using Springer et al in view of Wan.

Applicant’s amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

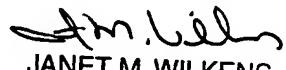
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet M. Wilkens whose telephone number is (571) 272-6869. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on (571) 272-6867. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wilkens
February 21, 2006


JANET M. WILKENS
PRIMARY EXAMINER
Att 3637